

Application No.: 10/050184  
Docket No.: FO6067USNA

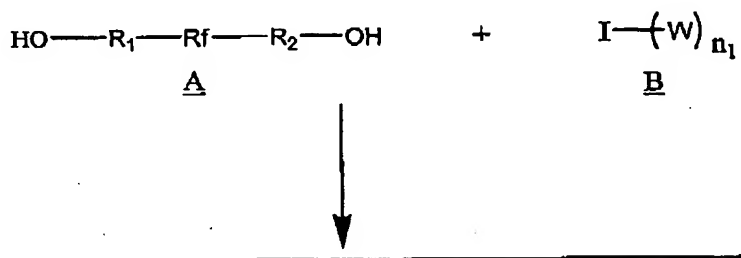
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# Amendments to Claims

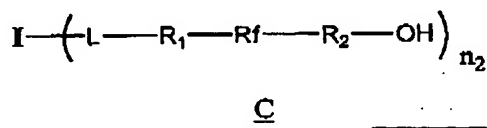
1. (Currently Amended) A fluorinated multifunctional alcohol synthesized from at least one core molecule

having at least three equivalents of hydroxy-reacting functional groups and at least one

fluorinated molecule having at least two hydroxyl groups, wherein the multifunctional alcohol is synthesized using the reaction scheme:



An alcohol product mixture containing



wherein A is a fluorinated monomer or polymer having two hydroxyl groups, wherein Rf is a monomeric or polymeric perfluorinated alkylene-diyl, oxyalkylene, arylenediyl, oxyarylene, and

mixtures thereof, and R<sub>1</sub> and R<sub>2</sub> are monomeric or polymeric divalent moieties such as alkylene-diyl, oxyalkylene, alkylene sulfide, arylenediyl, oxyarylene, arylene sulfide, siloxane, and mixtures thereof, B is a multifunctional molecule wherein I is a core moiety, W stands for one equivalent of hydroxy-reacting group and n<sub>1</sub> is at least 3; C is the multifunctional alcohol product mixture from A and B, wherein L is an ether link and n<sub>2</sub> is at least 3.

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2. (Original) The multifunctional alcohol of Claim 1 wherein there are at least 1.5 equivalents of hydroxyl groups from the fluorinated molecule for every hydroxy-reacting group from the core molecule.

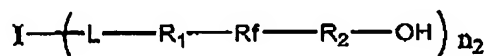
3. (Canceled).

4. (Currently Amended) The multifunctional alcohol of 3-1 wherein  $n_1$  and  $n_2$  range from 3 to 6.

5. (Currently Amended) The multifunctional alcohol of Claim 3-1 wherein there are at least 2.5 OH groups from A for every equivalent of hydroxyl-reacting group, W, from B.

6. (Canceled).

7. (Original) The multifunctional alcohol of Claim 3-1 having the formula of



wherein  $n_2$  ranges from 3 to 6.

8. (Currently Amended) The multifunctional alcohol of Claim 3-1 wherein  $R_f$  is a perfluorinated polymethylene moiety having at least 4 carbon atoms.

9. (Currently Amended) The multifunctional alcohol of Claim 3-1 wherein  $R_f$  is a perfluorinated poly(oxyalkylene) moiety having at least 4 carbon atoms.

10. (Canceled).

11. (Canceled).

12. (Canceled).

13. (Withdrawn) A multifunctional acrylate prepared from the fluorinated multifunctional alcohol of Claim 1.

14. (Withdrawn) A multifunctional acrylate prepared from the fluorinated multifunctional alcohol of Claim 3.

15. (Withdrawn) The fluorinated multifunctional acrylate of Claim 13 having a number average molecular weight of at least 500.

16. (Withdrawn) A multifunctional acrylate prepared from the fluorinated multifunctional alcohol of Claim 7.

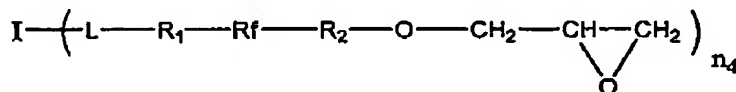
17. (Withdrawn) A polymer coating composition containing at least one acrylate of Claim 13.

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18. (Withdrawn) A multifunctional glycidyl ether prepared from the fluorinated multifunctional alcohol of Claim 1.

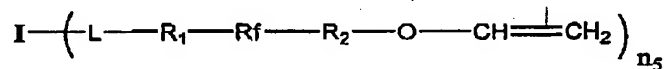
19. (Withdrawn) The multifunctional glycidyl ether of Claim 18 having the formula of



wherein I is a multivalent radical; L is selected from a group of ether, ester and urethane links; R<sub>1</sub> and R<sub>2</sub> are monomeric or polymeric divalent radicals such as alkylenediyl, oxyalkylene, alkylene sulfide, arylenediyl, oxyarylene, arylene sulfide, siloxane, and mixtures thereof, R<sub>f</sub> is a monomeric or polymeric perfluorinated alkylenediyl, oxyalkylene, arylenediyl, oxyarylene, and mixtures thereof; and n<sub>4</sub> ranges from 3 to 6.

20. (Withdrawn) A multifunctional vinyl ether prepared from the fluorinated multifunctional alcohol of Claim 1.

21. (Withdrawn) The multifunctional vinyl ether of Claim 20 having the formula of



wherein I is a multivalent radical; L is selected from a group of ether, ester and urethane links; R<sub>1</sub> and R<sub>2</sub> are monomeric or polymeric divalent radicals such as alkylenediyl, oxyalkylene, alkylene sulfide, arylenediyl, oxyarylene, arylene sulfide, siloxane, and mixtures thereof, R<sub>f</sub> is a monomeric or polymeric perfluorinated alkylenediyl, oxyalkylene, arylenediyl, oxyarylene, and mixtures thereof; and n<sub>5</sub> ranges from 3 to 6.

22. (New) The multifunctional alcohol of Claim 1 wherein B is chosen from halides or other compounds that react with alcohols to form ethers.

23. (New) The multifunctional alcohol of Claim 1 wherein B is selected from α, α, 2,3,5,6-hexachloro-p-xylene, 1,3-dichloro-2-(chloromethyl)-2-methylpropane, 1,1,1-tris(chloromethyl)-propane, 2,4,6-tris(bromomethyl)mesitylene,

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pentaerythrityl tetrachloride, pentaerythrityl tetrabromide, 1,2,4,5-tetrakis(bromomethyl)-benzene, and hexakis(bromomethyl)benzene.